

AMENDMENT OF THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

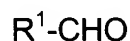
1. (currently amended) A composition for detackifying paint in an aqueous system, wherein the composition is an aqueous mixture comprising:

~~a flocculant and/or a coagulant; and~~

a polyarylamine polymer formed by the reaction of less than 2 moles of an aldehyde per mole of arylamine in the presence of an acid in an aqueous solution, and wherein the arylamine is selected from the group consisting of aniline, alkyanilines, phenylenediamines, aminophenols, methylenedianiline, homologues of methylenedianiline, and mixtures thereof; and

an other flocculant and/or coagulant.

2. (original) The composition according to claim 1, wherein the aldehyde is a compound having the formula



where R^1 is hydrogen or an alkyl, aryl, alkylaryl, arylalkyl, arylamino, alkylamino, carboxyl, or aldehyde group.

3. (original) The composition according to claim 1, wherein the aldehyde is selected from the group consisting of formaldehyde, acetaldehyde, propionaldehyde, benzaldehyde, crotonaldehyde, butyraldehyde, glyceraldehyde, glyoxalic acid, glyoxal, glutaraldehyde, and mixtures thereof.

4. (original) The composition according to claim 1, wherein the aldehyde is formaldehyde.

5. (original) The composition according to claim 1, wherein the aldehyde is provided by an aldehyde releasing agent selected from the group consisting of trioxane, polyoxymethylenes, paraformaldehyde, and hexamethylenetetramine.

6. - 7. (cancelled)

8. (previously presented) The composition according to claim 1, wherein the arylamine is selected from the group consisting of aniline, toluidine, aminophenol, aminosalicic acid, anthranilic acid, sulfanilic acid, and mixtures thereof.

9. (original) The composition according to claim 1, wherein the arylamine comprises aniline.

10. (currently amended) The composition according to claim 1, wherein the polyarylamine polymer comprises an amine modifier selected from the group consisting of primary amines, secondary amines, amides, imides, imidines, polyamines, alkylene polyamines, aminoalcohols and mixtures thereof, wherein the amine modifier is different from the arylamine.

11. (original) The composition according to claim 10, wherein the amine modifier is selected from the group consisting of methylamine, dimethylamine, benzylamine, ethylenediamine, phenylenediamines, aminophenols, diethylenetriamine, monoethanolamine, diethanolamine, fatty amines, dicyandiamide, melamine, urea and combinations thereof.

12. (original) The composition according to claim 10, wherein the amine modifier is selected from the group consisting of melamine, dicyandiamide, urea, diethylenetriamine, monoethanolamine and mixtures thereof.

13. (original) The composition according to claim 10, wherein the amine modifier is melamine.

14. (original) The composition according to claim 1, wherein the molar ratio of aldehyde:arylamine in the reaction to form the polyarylamine polymer is from about 0.5:1 to less than 2:1.

15. (original) The composition according to claim 1, wherein the molar ratio of aldehyde:arylamine is from 1.3:1 to 1.9:1.

16. (original) The composition according to claim 1, wherein the ratio of molar equivalents of acid:moles arylamine in the reaction to form the polyarylamine polymer is from 0.2:1 to 3:1.

17. (previously presented) The composition according to claim 10, wherein the molar ratio of amine modifier:arylamine is from 0:1 to 10:1.

18. (previously presented) The composition according to claim 10, wherein the molar ratio of amine modifier:arylamine is from 0:1 to 5:1.

19. (previously presented) The composition according to claim 10, wherein the molar ratio of amine modifier:arylamine is from 0:1 to 3:1

20. (previously presented) The composition according to claim 1, wherein the flocculant is selected from the group consisting of organic flocculants (cationic, anionic, nonionic, zwitterionic), polyvinylalcohol, styrene/acrylate copolymers,

acrylate/acrylamide copolymers, cationic acrylamide copolymers,
dicyandiamide/formaldehyde polymers, melamine/formaldehyde polymers,
urea/formaldehyde polymers, and mixtures thereof.

21. – 58. (cancelled)